

FIG. 1

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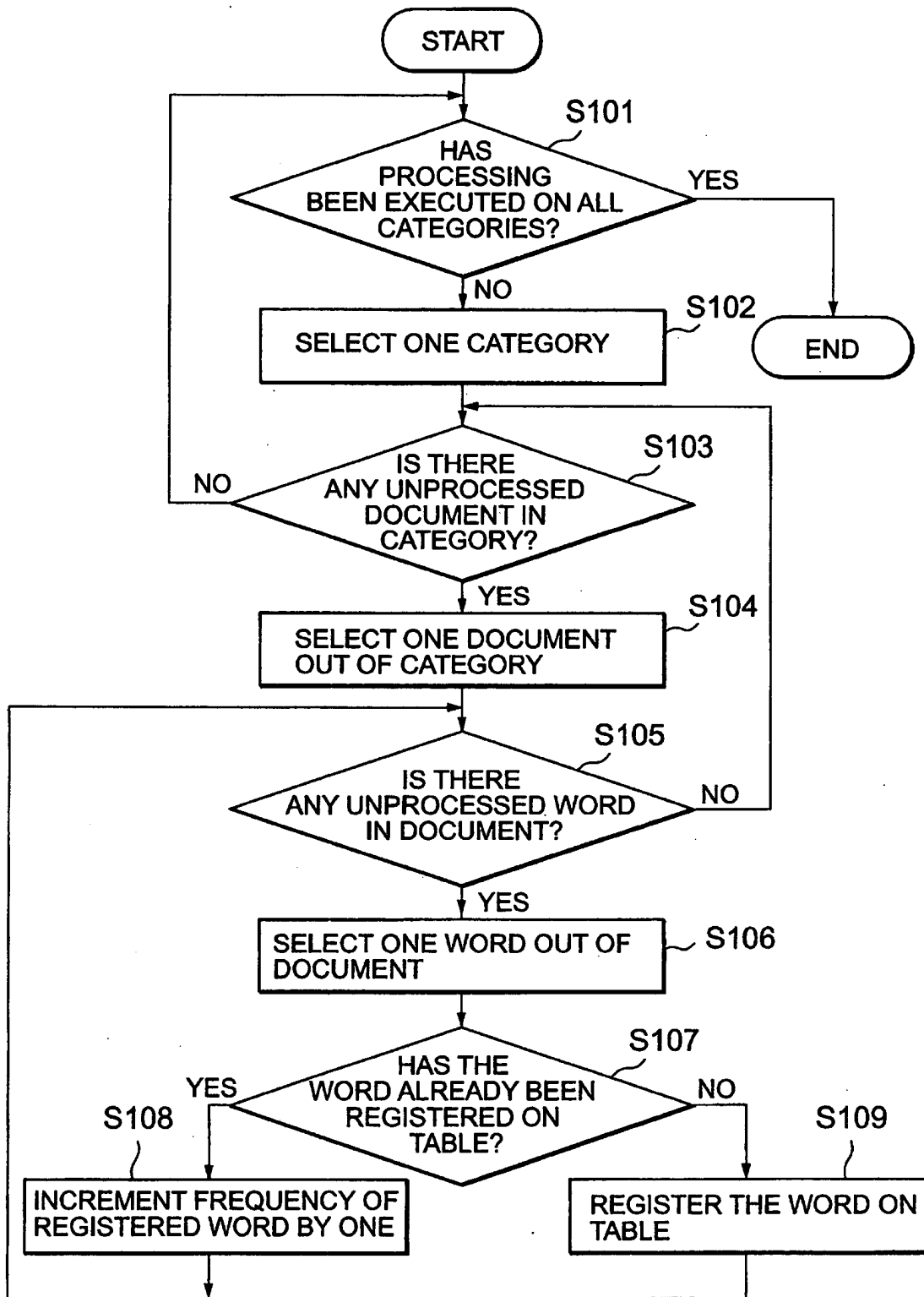


FIG. 2

CATEGORY TABLE (BEFORE ELIMINATING UNNECESSARY WORDS)

WORD ID	PART OF SPEECH		
WORD		FREQUENCY OF APPEARANCE	
0 : (A) : VERB : 8349		26 : WORLD : NOUN : 252	
1 : (B) : VERB : 4841		27 : TALK : VERB : 238	
2 : (C) : VERB : 4335		28 : LOSE : VERB : 234	
3 : (DO) : VERB : 3570		29 : WOMAN : NOUN : 221	
4 : (SUN) : NOUN : 2250		30 : PITCHER : NOUN : 220	
5 : JAPAN : PROPER NOUN : 1856		31 : FOLLOW : VERB : 220	
6 : (D) : VERB : 1716		32 : MANAGER : NOUN : 216	
7 : TEAM : NOUN : 1175		33 : OUTFIELDER : NOUN : 216	
8 : PLAYER : NOUN : 1128		34 : OOOO : PROPER NOUN : 216	
9 : GAME : NOUN : 714		35 : (H) : VERB : 208	
10 : (E) : VERB : 660		36 : HIT : NOUN : 204	
11 : (F) : NOUN : 583		37 : MAJOR LEAGUES : NOUN : 195	
12 : TOTAL : NOUN : 532		38 : WORLD CHAMPIONSHIP : NOUN : 192	
13 : FINALS : NOUN : 513		39 : TOKYO : PROPER NOUN : 190	
14 : VICTORY : NOUN : 494		40 : CHAMPIONSHIP : NOUN : 182	
15 : ENTER : VERB : 456		41 : ENTRY : NOUN : 182	
16 : LEAGUE : NOUN : 448		42 : SYDNEY OLYMPIC GAMES : PROPER NOUN : 176	
17 : TOURNAMENT : NOUN : 432		43 : LEAD : NOUN : 168	
18 : AT-BAT : NOUN : 396		45 : (I) : VERB : 154	
19 : (G) : VERB : 357		46 : OOO : PROPER NOUN : 153	
20 : CONSECUTION : NOUN : 357		:	
21 : MAN : NOUN : 345		:	
22 : DECIDE : VERB : 323		:	
23 : REPRESENTATIVE : NOUN : 312		:	
24 : HIT : VERB : 306		(AND SO FORTH)	
25 : SEASON : NOUN : 266			

FIG. 3

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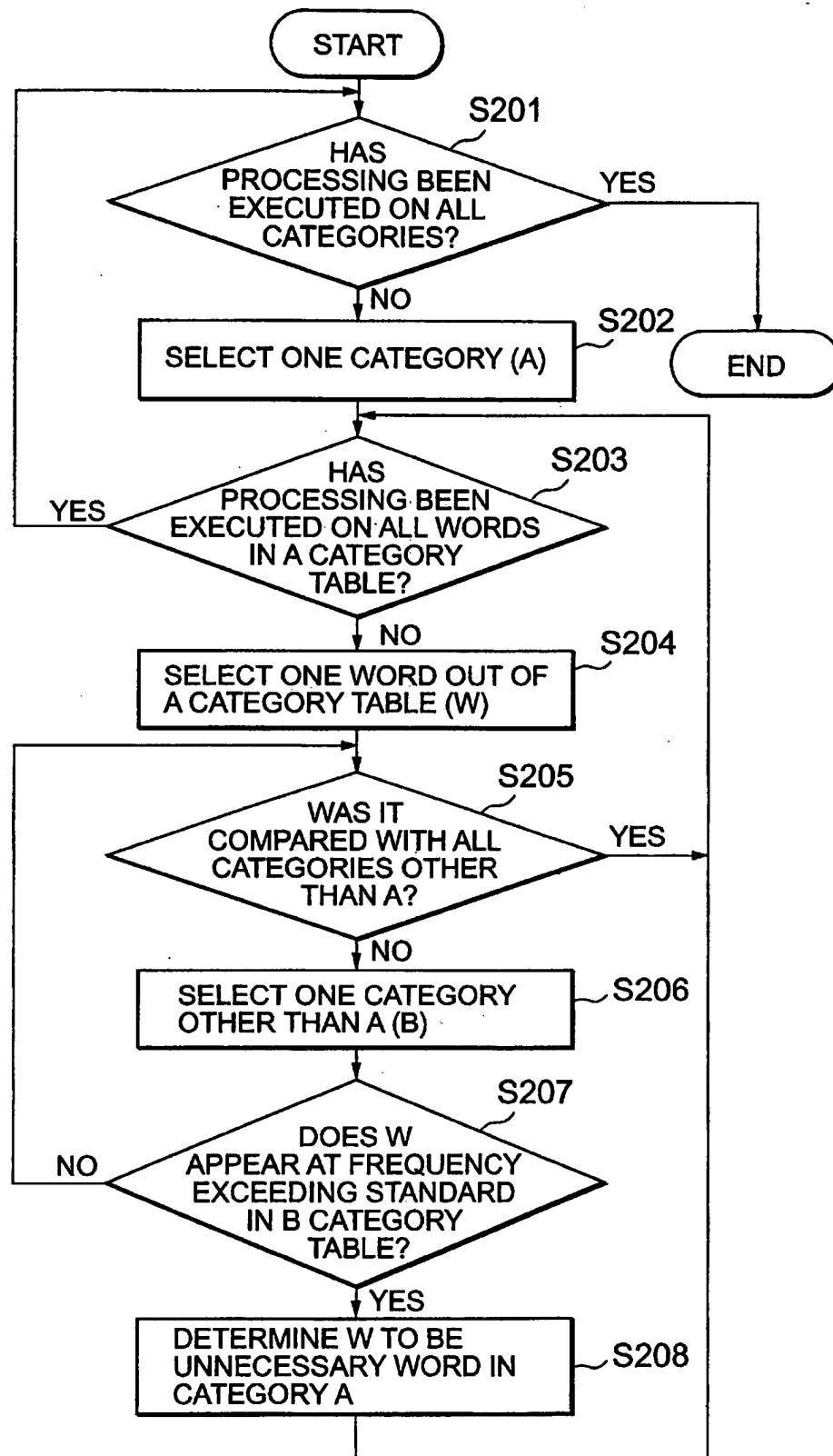


FIG. 4

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DETERMINATION OF WHETHER "JAPAN" IN SPORTS SHOULD BE UNNECESSARY WORD (THRESHOLD $R = 0.05$)

$80 \times 0.05 = 4$	$100 \times 0.05 = 5$	$150 \times 0.05 = 7.5$
SPORTS (80 DOCS.)	ECONOMICS (100 DOCS.)	POLITICS (150 DOCS.)
JAPAN 50	JAPAN 30	PRIME MINISTER 100
REPRESENTATIVE 20	TRANSACTION 20	JAPAN 70
PLAYER 20	BANK 10	REPRESENTATIVE 8
	PLAYER 3	BANK 5
	BEER 3	PLAYER 1
	REPRESENTATIVE 2	

30 > 5

FIG. 5A

DETERMINATION OF WHETHER "REPRESENTATIVE" IN SPORTS SHOULD BE UNNECESSARY WORD (THRESHOLD $R = 0.05$)

$80 \times 0.05 = 4$	$100 \times 0.05 = 5$	$150 \times 0.05 = 7.5$
SPORTS (80 DOCS.)	ECONOMICS (100 DOCS.)	POLITICS (150 DOCS.)
JAPAN 50	JAPAN 30	PRIME MINISTER 100
REPRESENTATIVE 20	TRANSACTION 20	JAPAN 70
PLAYER 20	BANK 10	REPRESENTATIVE 8
	PLAYER 3	BANK 5
	BEER 3	PLAYER 1
	REPRESENTATIVE 2	

2 < 5

8 > 7.5

FIG. 5B

DETERMINATION OF WHETHER "PLAYER" IN SPORTS SHOULD BE UNNECESSARY WORD (THRESHOLD $R = 0.05$)

$80 \times 0.05 = 4$	$100 \times 0.05 = 5$	$150 \times 0.05 = 7.5$
SPORTS (80 DOCS.)	ECONOMICS (100 DOCS.)	POLITICS (150 DOCS.)
JAPAN 50	JAPAN 30	PRIME MINISTER 100
REPRESENTATIVE 20	TRANSACTION 20	JAPAN 70
PLAYER 20	BANK 10	REPRESENTATIVE 8
	PLAYER 3	BANK 5
	BEER 3	PLAYER 1
	REPRESENTATIVE 2	

3 < 5

1 < 7.5

FIG. 5C

SPORTS (80 DOCS.)	ECONOMICS (100 DOCS.)	POLITICS (150 DOCS.)
JAPAN 50	JAPAN 30	PRIME MINISTER 100
REPRESENTATIVE 20	TRANSACTION 20	JAPAN 70
PLAYER 20	BANK 10	REPRESENTATIVE 8
	PLAYER 3	BANK 5
	BEER 3	PLAYER 1
	REPRESENTATIVE 2	

FIG. 6

CATEGORY TABLE (AFTER ELIMINATING UNNECESSARY WORDS)

WORD ID	WORD	PART OF SPEECH	FREQUENCY OF APPEARANCE
0	PLAYER	NOUN	1128
1	GAME	NOUN	714
2	FINALS	NOUN	513
3	ENTER	VERB	456
4	LEAGUE	NOUN	448
5	AT-BAT	NOUN	396
6	MAN	NOUN	345
7	SEASON	NOUN	266
8	LOSE	VERB	234
9	WOMAN	NOUN	221
10	PITCHER	NOUN	220
11	OUTFIELDER	NOUN	216
12	OOOO	PROPER NOUN	216
13	HIT	NOUN	204
14	MAJOR LEAGUES	NOUN	195
15	WORLD CHAMPIONSHIP	NOUN	192
16	ENTRY	NOUN	182
17	CHAMPIONSHIP	NOUN	182
18	SYDNEY OLYMPIC GAMES	type	145 : 176
19	LEAD	NOUN	168
20	OOO	PROPER NOUN	153
:			
:			
:			
(AND SO FORTH)			

FIG. 7

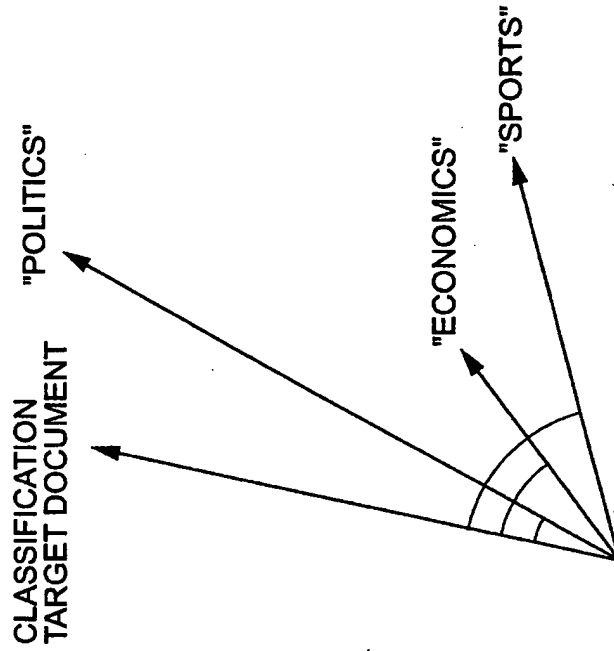


FIG. 8B

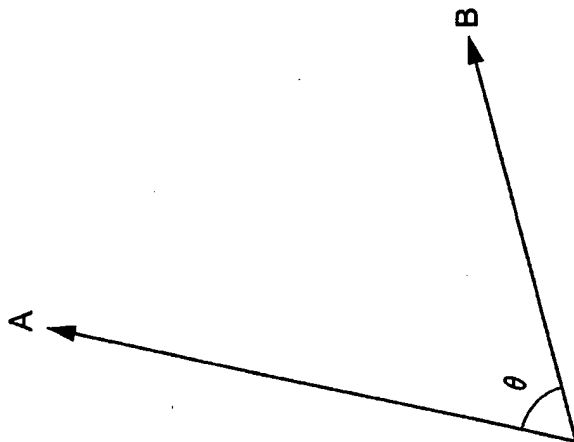


FIG. 8A

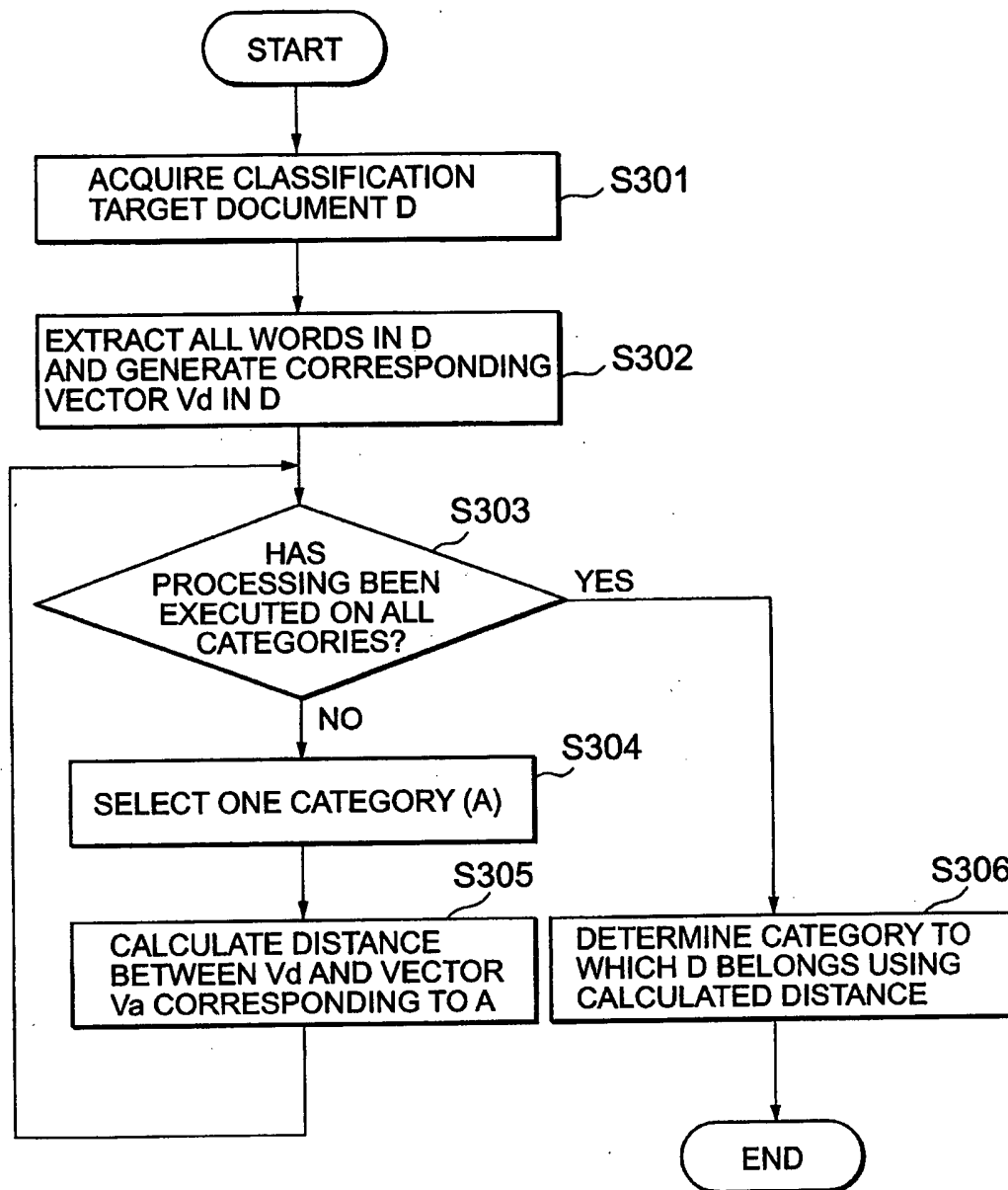


FIG. 9